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We will describe our three-track program for enhancing the mathematical and scientific knowledge of elementary, middle, and high school teachers. Participants take courses in math, physics, biology, chemistry, geosciences, and education. Most of the courses are taught online during the school year and face-to-face during the summer. Several of the courses are co-taught by faculty from math, science, and education. Participating teachers earn masters degrees in Multidisciplinary Sciences. (Received September 25, 2012)